

UNITED STATES GOVERNMENT

Memorandum

25X1A

EP 65-304

TO : The Files: [REDACTED] Task Order 2

DATE: 14 October 1965

FROM : [REDACTED]

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SUBJECT: Inspection Report No. 3 - RF Wattmeter and Dummy Loads with [REDACTED]
25X1A [REDACTED]

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1. Project Description:

This project is for the development of a radio frequency wattmeter and dummy loads to perform measurements efficiently and accurately of power output and antenna matching capabilities of our agent transmitters.

2. Contractual Information:

- a. Initial Cost: [REDACTED]
- b. Request for Procurement Action: 1 June 1965
- c. Initiation Date: 30 June 1965
- d. Completion Date: 8 December 1965
- e. Deliverable Items: One Engineering Model - 29 September 1965; One Service Test Model - ten weeks after acceptance of Engineering Model; One set of reproducible production drawings and five engineering reports - ten weeks after acceptance of Service Test Model

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3. Date of Meeting: 7 October 19654. Place of Meeting: Alexandria, Virginia5. Persons Attending:AgencyNon-Agency

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6. Contractor's Performance:

- a. On schedule and expected to remain so: No
- b. Within obligated funds and expected to remain so: Yes
- c. Satisfactory technical progress: Yes

7. Project Status. . .

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7. Project Status:

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I reviewed the project with [REDACTED] and the status is as follows. According to [REDACTED], an unexpected gap in the impedances resulted because of the minimum length of cable necessary to connect coax switches together. [REDACTED] tried new layouts to eliminate cable length unsuccessfully and had to finally settle on larger increments of cable to be switched in at each switching sequence. This meant that [REDACTED] had to cut new cables using the new cable switching increment lengths resulting in a loss of time.

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Since [REDACTED] had scheduled to begin calibration of the engineering model around the 9th of September and since they have just now begun calibration procedures, I estimate that [REDACTED] is approximately one month behind schedule.

I feel it is interesting to note at this time that the best of impedance bridges are only accurate to within ± 1 percent and that [REDACTED] has found that the coax cables serving as dummy loads in the engineering model can be cut to a higher degree of accuracy than calibration impedance bridges can measure them. A different calibration technique should be considered for the final model.

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